

**Michigan Chronic Hepatitis C Surveillance Summary**  
**Cases Reported January 1, 2011 through December 31, 2011<sup>1</sup>**

**Chronic Hepatitis C**

Number of confirmed cases<sup>2</sup>=7050

Michigan rate per 100,000 population=71.39

<b><u>Age (years)</u></b>	<b><u>N</u></b>	<b><u>Percent</u></b>
<1	3	0.1%
1-4	2	0.1%
5-9	2	0.1%
10-14	4	0.1%
15-19	97	1.4%
20-24	419	5.9%
25-29	527	7.5%
30-34	392	5.6%
35-39	297	4.2%
40-44	423	6.0%
45-49	704	10.0%
50-54	1272	18.0%
55-59	1520	21.6%
60-64	872	12.4%
65-69	247	3.5%
>70	252	3.6%
Unknown	17	0.2%

<b><u>Gender</u></b>	<b><u>N</u></b>	<b><u>Percent</u></b>
Male	4455	63.2%
Female	2573	36.5%
Unknown	22	0.3%

<b><u>Race</u></b>	<b><u>N</u></b>	<b><u>Percent</u></b>
American Indian or Alaska Native	45	0.6%
Asian	20	0.3%
African American	1409	20.0%
Hawaiian or Pacific Islander	<5	N/A
Caucasian	2776	39.4%
Other	86	1.2%
Unknown	2483	35.2%
Multiple Races selected	227	3.2%

<b><u>Ethnicity</u></b>	<b><u>N</u></b>	<b><u>Percent</u></b>
Hispanic or Latino	78	1.1%
Not Hispanic or Latino	1510	21.4%
Unknown	5462	77.5%

**Reported Cases by County**

Alcona	5	Lake	18
Alger	6	Lapeer	72
Allegan	39	Leelanau	5
Alpena	20	Lenawee	98
Antrim	18	Livingston	72
Arenac	6	Luce	15
Baraga	15	Mackinac	13
Barry	13	Macomb	603
Bay	33	Manistee	19
Benzie	6	Marquette	67
Berrien	97	Mason	11
Branch	57	Mecosta	10
Calhoun	119	Menominee	8
Cass	25	Midland	35
Charlevoix	19	Missaukee	6
Cheboygan	24	Monroe	116
Chippewa	121	Montcalm	42
Clare	27	Montmorency	7
Clinton	28	Muskegon	105
Crawford	11	Newaygo	25
Delta	29	Oakland	451
Detroit City	1264	Oceana	9
Dickinson	24	Ogemaw	20
Eaton	64	Ontonagon	5
Emmet	15	Osceola	6
Genesee	353	Oscoda	5
Gladwin	22	Otsego	11
Gogebic	18	Ottawa	25
Grand Traverse	83	Presque Isle	4
Gratiot	31	Roscommon	17
Hillsdale	19	Saginaw	140
Houghton	8	Sanilac	15
Huron	6	Schoolcraft	5
Ingham	187	Shiawassee	67
Ionia	64	St Clair	107
Iosco	16	St Joseph	38
Iron	13	Tuscola	23
Isabella	17	Van Buren	59
Jackson	344	Washtenaw	219
Kalamazoo	96	Wayne	842
Kalkaska	13	Wexford	22
Kent	231		
Keweenaw	3		

**Footnotes:**

<sup>1</sup> Represents cases reported to MDCH by local health departments during 2011.

<sup>2</sup> Case Definition (2011)

**Clinical Description**

No symptoms are required. Most HCV-infected persons are asymptomatic; however, many have chronic liver disease, which can range from mild to severe.

**Laboratory Criteria for Diagnosis**

One or more of the following four criteria:

Anti-HCV positive (repeatedly reactive) by enzyme immunoassay (EIA) verified by at least one additional more specific assay, OR

HCV RIBA (recombinant immunoblot assay) positive, OR

Nucleic Acid Test (NAT) positive for HCV RNA (including genotype), OR

Antibodies to hepatitis C virus (anti-HCV) screening-test-positive with a signal to cut-off ratio predictive of a true positive as determined for the particular assay and posted by CDC

**Case Classification**

**Confirmed:** A case that is laboratory confirmed and does not meet the case definition for acute hepatitis C.

**Probable:** A case that is anti-HCV positive (repeat reactive) by EIA and has alanine aminotransferase (ALT or SGPT) values above the upper limit of normal, but the anti-HCV EIA result has not been verified by an additional more specific assay or the signal to cut-off ratio is unknown.

Note: Percentages may not equal 100 due to rounding.